

FORTINET



FortiAnalyzer 1000F

QuickStart Guide

Product Registration

Thank you for purchasing a FortiAnalyzer. To access:

- Cloud Management
- FortiGuard Updates
- Firmware Upgrades
- Technical Support
- Warranty Coverage

Please register your FortiAnalyzer:

Vous devez enregistrer le produit:

Debe registrar el producto:

登録のお願い:

请马上注册:

<http://support.fortinet.com>

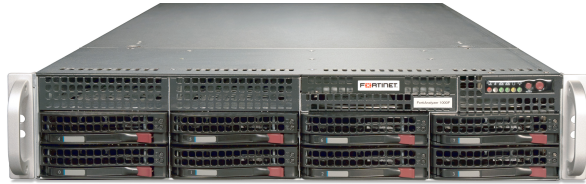


July 16, 2020

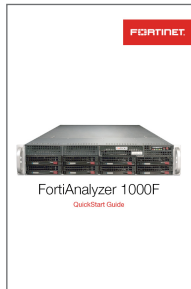
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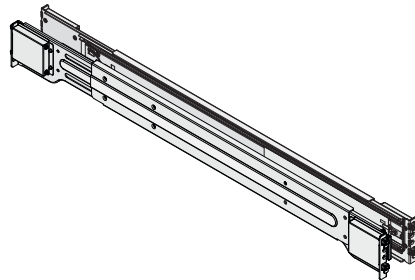
Box Includes



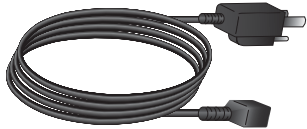
FortiAnalyzer 1000F



QuickStart Guide



2x Rack-Mount Brackets



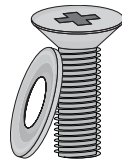
2x Power Cables



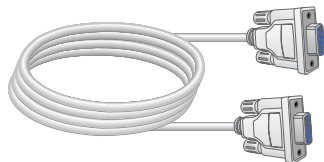
2x M4 Flat Head Screws



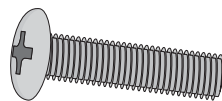
Ethernet Cable



8x M5 12L Flat Head Screws & Washers

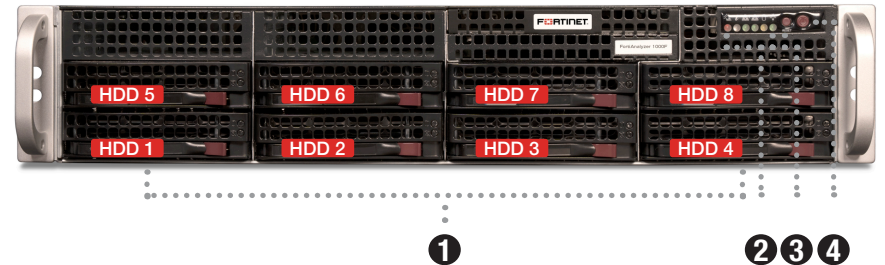


Console Cable



2x M5 20L Truss Head Screws

Port Guide - Front



- 1** HDD 1 to 8: 8 x 4TB hot-swappable hard disk drives
- 2** LED Panel: Power failure, information, ethernet port activity (1 & 2), hard disk activity and device power
- 3** RESET: Device reset button
- 4** Power: Power button

Port Guide - Back



- 1 Redundant Power Supplies:** 100-240 Vac, 6.1-2.6A, 50/60Hz
- 2 Console Port (DB-9):** CLI console to the management computer
- 3 IPMI Port (covered):** See <http://forti.net/ipmi-password> to change the default password
- 4 USB Ports (USB-A):** Not in use
- 5 Ethernet Ports 1 & 2 (RJ-45):** Gigabit ethernet network interfaces
- 6 VGA Port (DB-15):** Not in use
- 7 SFP Ports 3 & 4 (SFP+):** 10Gbps small form factor pluggable transceiver ports

LED Guide - Front



- 1 Hard Drive Activity**
 - Flashing Blue:** HDD in use
 - Off:** No HDD activity
- HDD Status**
 - Flashing Red:** Hard disk rebuilding
 - Red:** Hard disk failure
- 2 Power Fail**
 - Red:** A power supply has failed
 - Off:** Normal operation
- Information**
 - Flashing Red (1Hz):** Fan failure
 - Red:** System in overheat condition
 - Flashing Red (0.25Hz):** Redundant power supply failure
 - Off:** Normal operation
- Ethernet Activity**
 - Flashing Green:** Transmitting & receiving data
 - Off:** No link activity
- SFP Activity**
 - Flashing Green:** Transmitting & receiving data
 - Off:** No link activity
- HDD Activity**
 - Flashing Yellow:** HDD in use
 - Off:** No HDD activity
- Device Power**
 - Green:** The unit is on
 - Off:** The unit is off

LED Guide - Back



1 Ethernet Ports Speed

- **Green:** Connected at 10Gbps
- **Amber:** Connected at 1Gbps
- **Off:** Connected at 10Mbps or not in use

Ethernet Ports Link/Activity

- **Flashing Amber:** Transmitting & receiving data
- **Off:** No link established

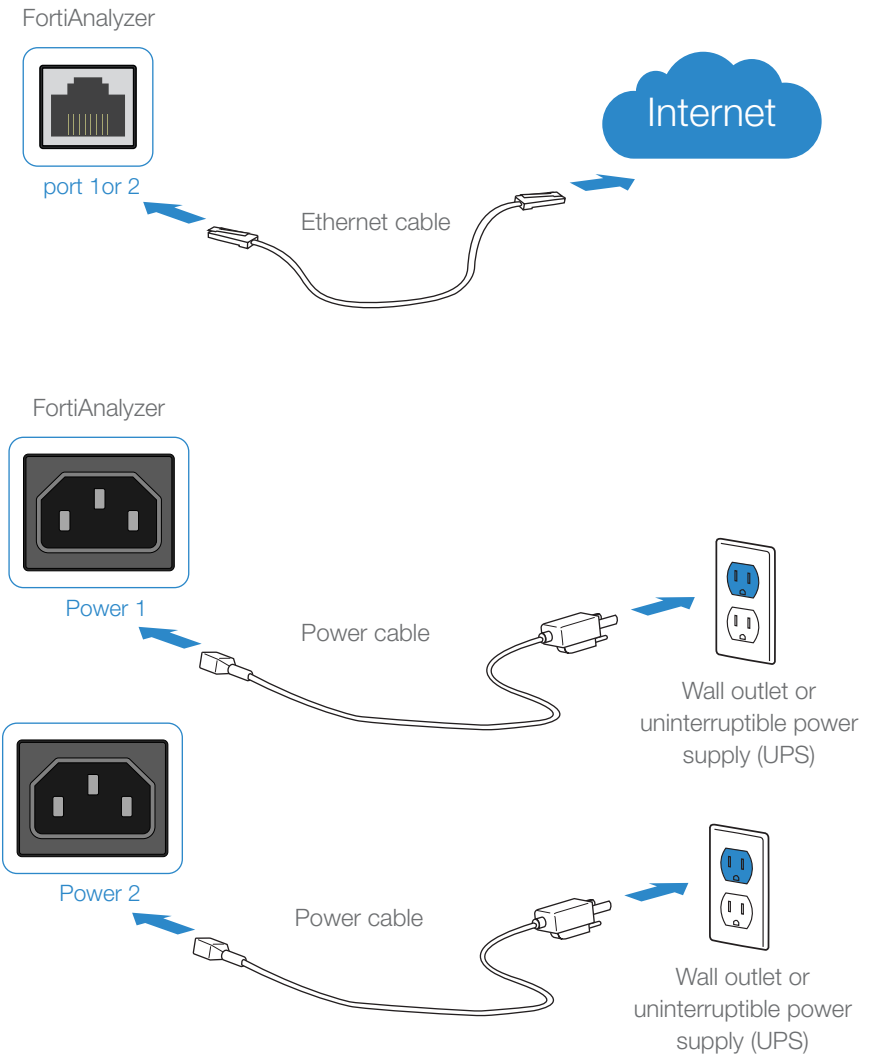
2 SFP+ Ports Speed

- **Green:** Connected at 10Gbps
- **Amber:** Connected at 1Gbps
- **Off:** Not connected

SFP+ Ports Activity

- **Flashing Green:** Transmitting & receiving data
- **Off:** No link activity

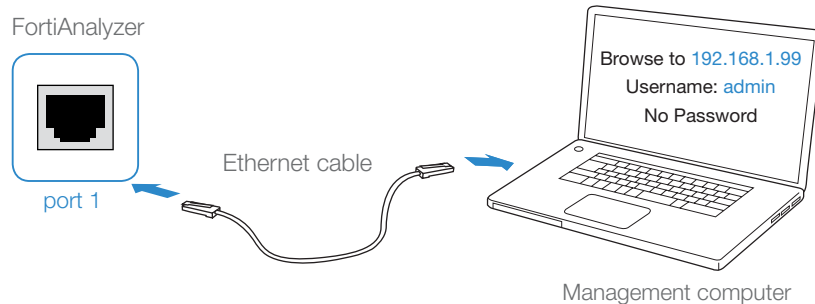
Basic Setup



Internet Setup

1. Connect the **Ethernet cable** from an **Ethernet port** to the **Internet**
2. Plug both **Power cables** into the device and outlets or UPS units

Login

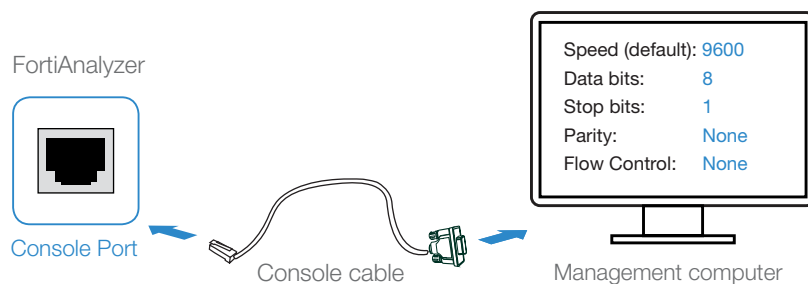


GUI Login

1. Connect **port 1** with the **Ethernet cable** to the **Management Computer**
2. Enable **DHCP** or set the Management Computer's **IP** and **subnet** to:

Static IP Address: 192.168.1.1
Subnet Mask: 255.255.255.0

3. Visit 192.168.1.99 in a web browser
4. Log in with username **admin** and **no password**



CLI Login

1. Connect a **Console cable** from the **Console Port** to the **management computer**
2. Start a **terminal** session setting the **COM Port** to 9600/8-N-1
3. Log in using username **admin** and no password

Installation

The FortiAnalyzer unit can be mounted in any standard **19 inch rack** unit with the provided mounting hardware.

Please also read "Cautions and Warnings" at the end of this guide prior to installing your device.

Caution: The rack must be **stabilized** before sliding the unit out for servicing. Failure to stabilize may cause the rack to tip over.

Electrostatic discharge (**ESD**) can damage your Fortinet equipment.

To avoid **personal injury** or damage to the unit, it is recommended that **two or more** people install the unit into the rack.

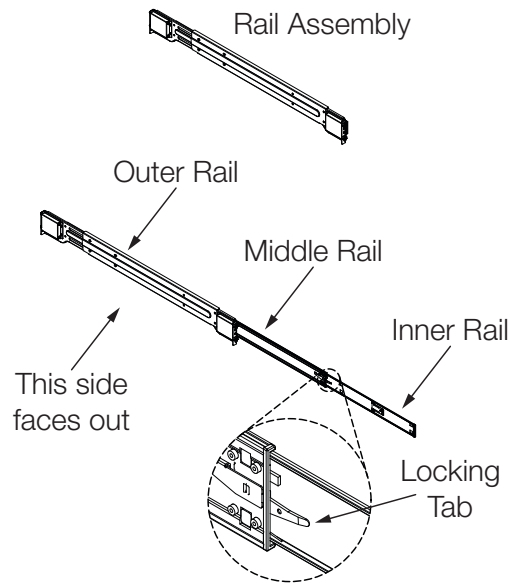
Do not place **heavy objects** on the unit.

Rack Precautions

- Ensure the **leveling jacks** on the bottom of the rack are **fully extended** to the floor with the full weight of the rack resting on the jacks.
- For single rack installation, **stabilizers** should be attached to the rack.
- For multiple rack installations, the racks should be **coupled together**.
- Ensure the rack is **stable** before extending a component from the rack.
- Only extend **one component** at a time; extending **two or more** simultaneously may cause the rack to become **unstable**.

Note: After installing the device into the **rack**, install the **hard disk drives** into the device.

Rack Rail Parts



The **rail assembly** consists of three parts:

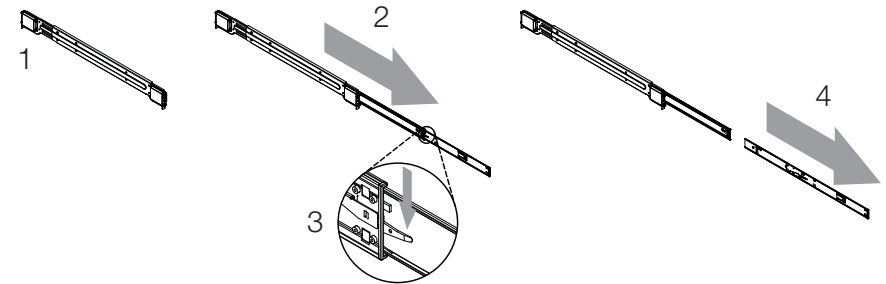
- Outer rail: connects to the rack
- Middle rail: connects the inner and outer rails
- Inner rail: connects to the device.

The **inner rail** has a **locking tab** that locks the device into place when it is installed and pushed into the rack. This **prevents** the device from **sliding** fully out of the rack when the device is being worked on.

There are **four steps** to install the device into the rack:

1. **Disassemble** the rail assembly
2. Attach the **inner rails** to the device
3. Install the **outer rails** on a rack
4. Install the device into **the rack**

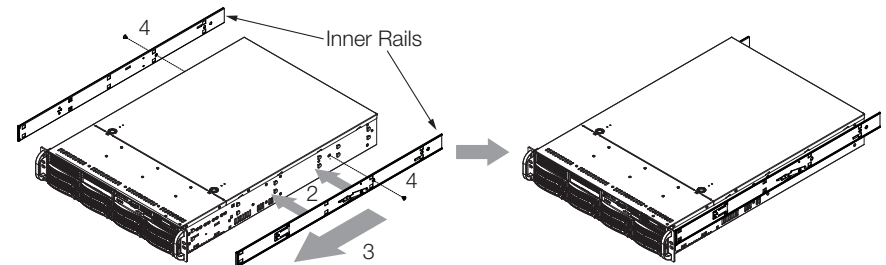
Disassemble the rail assembly:



1. **Identify** the left and right rail **assemblies**.
2. **Pull out** the inner rail until it is fully extended.
3. Press down the **locking tab** to release the inner rail.
4. Remove the **inner rail** from the outer rail.
5. Repeat steps 2 - 4 for the remaining rail assembly.

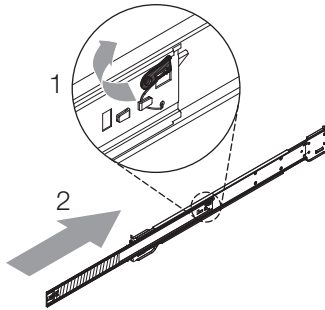
Caution: Do not pick up the server by the **front handles**. They are designed to only pull the unit from the rack.

Attach the inner rails to the device:

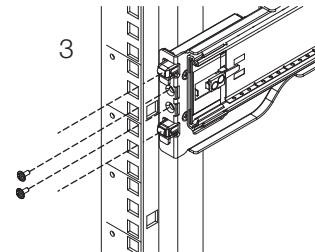


1. Ensure that the **right and left rails** are correctly identified.
2. Place the **inner rail** against the side of the device, ensuring that the **hooks** on the side of the device align with the **holes** in the rail.
3. Slide the rail towards the front of the device until the rail **clicks** into the **locked position**.
4. Optionally, **secure** the rail to the **device** using the provided **M4 Flat Head screws**.
5. Repeat steps 2 - 4 for the remaining rail.

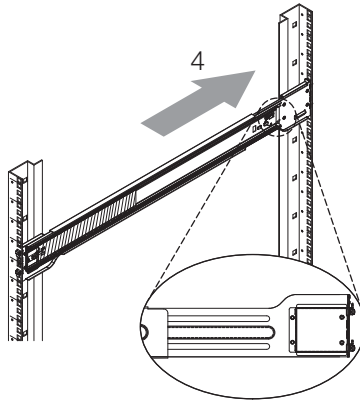
Install the outer rails on a rack:



1. Press up on the **locking tab** on the back of the **middle rail**.
2. Push the **middle rail** back into the outer rail.

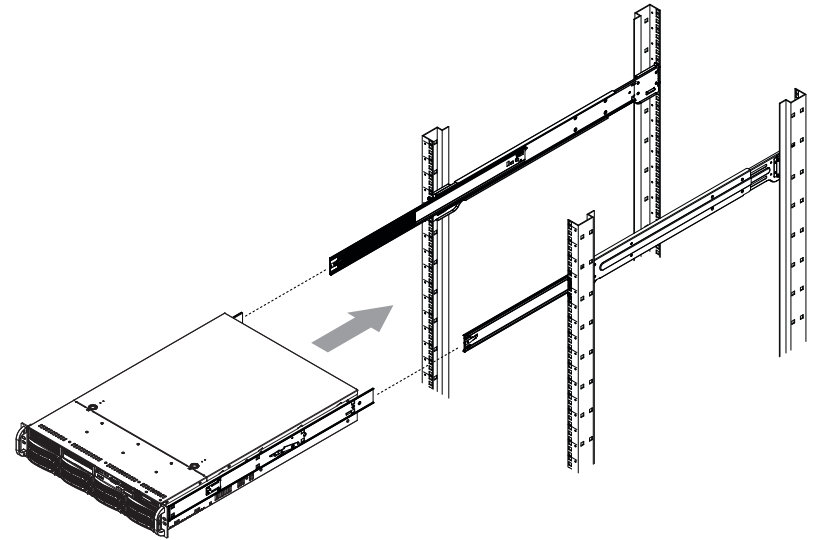


3. Hang the **hooks** on the front of the outer rail to the **slots** on the rack. Use two of the provided **washers** and **M5 12L Flat Head screws** to secure the rail to the rack.



4. **Pull out** the back of the outer rail to adjust its **length** until it fits properly in the rack.
5. Hang the **hooks** on the back of the rail to the **slots** on the back of the rack. Use two of the provided **washers** and **M5 12L Flat Head screws** to secure the rail to the rack.
6. Repeat steps 1 - 5 for the remaining rail.

Install the device into the rack:



1. Ensure that the inner rails are **properly connected** to the device, and that the outer rails are **securely attached** to the rack.
2. Pull the **middle rail** out from the front of the outer rail until it **locks**.
3. Align the inner rails with the middle rails and **slide the device** onto the rails until the **locking tab** on the inner rails **clicks** into the front of the middle rails. Ensure that **even pressure** is applied to both sides of the device while doing this.
4. Push down the **locking tabs** on both sides at the same time, then push the device all the way into the rack.
5. When the unit has been completely pushed into the rack, the **locking tabs** will click into the locked position.
6. For additional security, secure the chassis handles to the front of the rack with the provided **M5 20L Truss Head screws**.

After the device is **installed** in the rack and the **hard disk drives** are installed, plug the supplied **power cables** into the rear of the unit and then into **grounded electrical outlets** or **separate power sources**, such as uninterruptible power supplies (UPS) or power distribution units (PDU).

Note: Each power cable should be connected to a **different power source**. In this way, if one power source fails, the other may still be **operational** and the unit will not lose **power**.

Cautions and Warnings

Environmental Specifications

Ambient operating temperature: 0°C to 40°C

Rack Mount Instructions - The following or similar rack-mount instructions are included with the installation instructions:
Instructions de montage en rack - Les instructions de montage en rack suivantes ou similaires sont incluses avec les instructions d'installation:

Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.
Température ambiante élevée – S'il est installé dans un rack fermé ou à unités multiples, la température ambiante de fonctionnement de l'environnement du rack peut être supérieure à la température ambiante de la pièce. Par conséquent, il est important d'installer le matériel dans un environnement respectant la température ambiante maximale (Tma) stipulée par le fabricant.

Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
Ventilation réduite – Installation de l'équipement dans un rack doit être telle que la quantité de flux d'air nécessaire au bon fonctionnement de l'équipement n'est pas compromise.

Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
Chargement Mécanique – Montage de l'équipement dans le rack doit être telle qu'une situation dangereuse n'est pas liée à un chargement mécanique inégal.

Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
Surtenstion – Il convient de prendre l'ensemble des précautions nécessaires lors du branchement de l'équipement au circuit d'alimentation et être particulièrement attentif aux effets de la suralimentation sur le dispositif assurant une protection contre les courts-circuits et le câblage. Ainsi, il est recommandé de tenir compte du numéro d'identification de l'équipement.

Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).
Fiabilité de la mise à la terre – Fiabilité de la mise à la terre de l'équipement monté en rack doit être maintenue. Une attention particulière devrait être accordée aux connexions d'alimentation autres que les connexions directes au circuit de dérivation (par exemple de l'utilisation de bandes de puissance).

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude)
Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

Safety

Moving parts — Hazardous moving parts. Keep away from moving fan blades.
Pièces mobiles – Pièces mobiles dangereuses. Se tenir éloigné des lames mobiles du ventilateur.

Warning: Equipment intended for installation in Restricted Access Location.
Avertissement: Le matériel est conçu pour être installé dans un endroit où l'accès est restreint.

Battery – Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.
Batterie – Risque d'explosion si la batterie est remplacée par un type incorrect. Ne jetez pas les batteries au feu. Ils peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SR814.013 s'appliquent aux batteries.

警告
本電池如果更換不正確會有爆炸的危險
請依製造商說明書處理用過之電池

CAUTION:
There is a danger of explosion if a battery is incorrect replaced. Replace only with the same or equivalent type.
Dispose batteries of according to the manufacturer's instructions.
Disposing a battery into fire, a hot oven, mechanically crushing, or cutting it can result in an explosion.
Leaving a battery in an extremely hot environment can result in leakage of flammable liquid, gas, or an explosion.
If a battery is subjected to extremely low air pressure, it may result in leakage of flammable liquid, gas, or an explosion.

WARNING:
Lithium-Batterie Achtung: Explosionsgefahr bei fehlerhafter Batteriewechsel. Ersetzen Sie nur den gleichen oder gleichwertigen Typ. Batterien gemäß den Anweisungen des Herstellers entsorgen.

Beseitigung einer BATTERIE in Feuer oder einen heißen Ofen oder mechanisches Zerkleinern oder Schneiden einer BATTERIE, die zu einer EXPLOSION führen kann

Verlassen einer BATTERIE in einer extrem hohen Umgebungstemperatur, die zu einer EXPLOSION oder zum Austreten von brennbarer Flüssigkeit oder Gas führen kann

Eine BATTERIE, die einem extrem niedrigen Luftdruck ausgesetzt ist, der zu einer EXPLOSION oder zum Austreten von brennbarer Flüssigkeit oder Gas führen kann.

CAUTION: Shock Hazard. Disconnect all power sources.
ATTENTION: Risque d'électrocution. Débranchez toutes les sources d'alimentation.

Caution: Slide/rail mounted equipment is not to be used as a shelf or a work space.
Attention: Un équipement monté sur bâti ne doit pas être utilisé sur une étagère ou dans un espace de travail.

Regulatory Compliance

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

WARNING: Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

European Conformity (CE) - EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



Voluntary Control Council for Interference (VCCI) – Japan

この装置は、クラスA機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

V C C I — A

Product Safety Electrical Appliance & Material (PSE) – Japan

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Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

The presence conditions of the restricted substance (BSMI RoHS table) are available at the link below:
限用物質含有情況表 (RoHS Table) 請到以下 網址下載:
<https://www.fortinet.com/bsmi>

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地址：台北市內湖區行愛路176號2樓
電話：(02) 27961666

China

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Korea Certification (KC) – Korea

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